

Gunnar A Niklasson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6357472/publications.pdf>

Version: 2024-02-01

401
papers

16,685
citations

19608

61
h-index

22764

112
g-index

411
all docs

411
docs citations

411
times ranked

13221
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero Thermal Noise in Resistors at Zero Temperature. , 2022, , 139-145.		0
2	Electrochromic tungsten oxide films prepared by sputtering: Optimizing cycling durability by judicious choice of deposition parameters. <i>Electrochimica Acta</i> , 2021, 367, 137233.	2.6	23
3	Electrochromic solar water splitting using a cathodic WO ₃ electrocatalyst. <i>Nano Energy</i> , 2021, 81, 105620.	8.2	19
4	Charge coloration dynamics of electrochromic amorphous tungsten oxide studied by simultaneous electrochemical and color impedance measurements. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	6
5	Multicolored absorbing nickel oxide films based on anodic electrochromism and structural coloration. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	9
6	An Electrochemical Impedance Study of Alkaline Water Splitting Using Fe Doped NiO Nanosheets. <i>Physchem</i> , 2021, 1, 69-81.	0.5	6
7	Effective backscattering and absorption coefficients of light diffusing materials retrieved from reflectance and transmittance spectra of diffuse radiation. <i>Journal of Modern Optics</i> , 2021, 68, 605-623.	0.6	5
8	Impedance Spectroscopy of Electrochromic Hydrrous Tungsten Oxide Films. <i>Electronic Materials</i> , 2021, 2, 312-323.	0.9	3
9	Potentiostatic rejuvenation of electrochromic WO ₃ thin films: Exploring the effect of polyethylene oxide in LiClO ₄ -Propylene carbonate electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110767.	3.0	10
10	Electrochromism in Ni Oxide Thin Films Made by Advanced Gas Deposition and Sputtering: A Comparative Study Demonstrating the Significance of Surface Effects. <i>Journal of the Electrochemical Society</i> , 2020, 167, 116519.	1.3	4
11	Extraction of Backscattering and Absorption Coefficients of Magnetite Nanosphere Composites from Light-Scattering Measurements: Implications for Optomagnetic Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 11172-11183.	2.4	3
12	Coloration of tungsten oxide electrochromic thin films at high bias potentials and low intercalation levels. <i>Materials Letters: X</i> , 2020, 7, 100048.	0.3	2
13	Scattering and absorption cross sections of light diffusing materials retrieved from reflectance and transmittance spectra of collimated radiation. <i>Journal of Modern Optics</i> , 2020, 67, 974-991.	0.6	7
14	High-Contrast Switching of Plasmonic Structural Colors: Inorganic versus Organic Electrochromism. <i>ACS Photonics</i> , 2020, 7, 1762-1772.	3.2	38
15	Electrochromism of nitrogen-doped tungsten oxide thin films. <i>Materials Today: Proceedings</i> , 2020, 33, 2434-2439.	0.9	5
16	Light scattering materials for energy-related applications: Determination of absorption and scattering coefficients. <i>Materials Today: Proceedings</i> , 2020, 33, 2474-2480.	0.9	4
17	Electrochromism of Wâ€“In oxide thin films: Implications for cycling durability. <i>Thin Solid Films</i> , 2020, 697, 137830.	0.8	7
18	Cycling Durability of Electrochromic W-Ti Oxide Thin Films: Optical Transmittance Data Signal Dual Degradation Modes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 026514.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Differential coloration efficiency of electrochromic amorphous tungsten oxide as a function of intercalation level: Comparison between theory and experiment. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	8
20	General Method for Determining Light Scattering and Absorption of Nanoparticle Composites. <i>Advanced Optical Materials</i> , 2019, 7, 1801315.	3.6	10
21	Setup for simultaneous electrochemical and color impedance measurements of electrochromic films: Theory, assessment, and test measurement. <i>Review of Scientific Instruments</i> , 2019, 90, 085103.	0.6	6
22	Synergistic TiO ₂ /VO ₂ Window Coating with Thermochromism, Enhanced Luminous Transmittance, and Photocatalytic Activity. <i>Joule</i> , 2019, 3, 2457-2471.	11.7	42
23	Electrochromism of Wâ€“Ti Oxide Thin Films: Cycling Durability, Potentiostatic Rejuvenation, and Modelling of Electrochemical Degradation. <i>Journal of the Electrochemical Society</i> , 2019, 166, H795-H801.	1.3	9
24	Impedance Spectroscopy Modeling of Nickelâ€“Molybdenum Alloys on Porous and Flat Substrates for Applications in Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23890-23897.	1.5	31
25	Electrochromic WO ₃ thin films attain unprecedented durability by potentiostatic pretreatment. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2908-2918.	5.2	66
26	Characterization of nanocrystalline-nanoporous nickel oxide thin films prepared by reactive advanced gas deposition. <i>Materials Chemistry and Physics</i> , 2019, 227, 98-104.	2.0	10
27	Direct observation of active catalyst surface phases and the effect of dynamic self-optimization in NiFe-layered double hydroxides for alkaline water splitting. <i>Energy and Environmental Science</i> , 2019, 12, 572-581.	15.6	453
28	A novel phase function describing light scattering of layers containing colloidal nanospheres. <i>Nanoscale</i> , 2019, 11, 7404-7413.	2.8	10
29	Optical, charge transport and magnetic properties of palladium retrieved from photometric measurements: approaching the quantum mechanics background. <i>Physica Scripta</i> , 2019, 94, 055101.	1.2	3
30	Potentiostatically pretreated electrochromic tungsten oxide films with enhanced durability: Electrochemical processes at interfaces of indiumâ€“tin oxide. <i>Thin Solid Films</i> , 2019, 682, 163-168.	0.8	10
31	Impedance spectroscopy of water splitting reactions on nanostructured metal-based catalysts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 503, 012005.	0.3	2
32	Advances in electrochromic device technology: Multiple roads towards superior durability. <i>Surface and Coatings Technology</i> , 2019, 357, 619-625.	2.2	41
33	Inversion of two-flux and four-flux radiative transfer models for determining scattering and absorption coefficients for a suspended particle device. <i>Applied Optics</i> , 2019, 58, 8871.	0.9	8
34	Electrochemical pretreatment of electrochromic WO ₃ films gives greatly improved cycling durability. <i>Thin Solid Films</i> , 2018, 653, 1-3.	0.8	20
35	Solar energy materials for thermal applications: A primer. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 213-226.	3.0	46
36	Electrochromic materials and devices for energy efficiency and human comfort in buildings: A critical review. <i>Electrochimica Acta</i> , 2018, 259, 1170-1182.	2.6	369

#	ARTICLE	IF	CITATIONS
37	Electrochromics on a roll: Web-coating and lamination for smart windows. <i>Surface and Coatings Technology</i> , 2018, 336, 133-138.	2.2	64
38	Modeling of Electronic Properties of Amorphous Oxides. , 2018, , 319-331.		0
39	Spectral Selective Solar Light Enhanced Photocatalysis: TiO ₂ /TiAlN Bilayer Films. <i>Topics in Catalysis</i> , 2018, 61, 1607-1614.	1.3	4
40	Cation/Anion-Based Electrochemical Degradation and Rejuvenation of Electrochromic Nickel Oxide Thin Films. <i>ChemElectroChem</i> , 2018, 5, 3548-3556.	1.7	10
41	Electrochromic W _{1-x} Ti _x Mo _y O ₃ Thin Films Made by Sputter Deposition: Large Optical Modulation, Good Cycling Durability, and Approximate Color Neutrality. <i>Chemistry of Materials</i> , 2017, 29, 2246-2253.	3.2	47
42	Galvanostatic Rejuvenation of Electrochromic WO ₃ Thin Films: Ion Trapping and Detrapping Observed by Optical Measurements and by Time-of-Flight Secondary Ion Mass Spectrometry. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16995-17001.	4.0	46
43	The Importance of Oxygen Vacancies in Nanocrystalline WO ₃ Thin Films Prepared by DC Magnetron Sputtering for Achieving High Photoelectrochemical Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7412-7420.	1.5	35
44	Degradation Dynamics for Electrochromic WO ₃ Films under Extended Charge Insertion and Extraction: Unveiling Physicochemical Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12872-12877.	4.0	58
45	Disentangling the intricate atomic short-range order and electronic properties in amorphous transition metal oxides. <i>Scientific Reports</i> , 2017, 7, 2044.	1.6	19
46	(Invited) Durability of Electrochromic Films: Aging Kinetics and Rejuvenation. <i>ECS Transactions</i> , 2017, 77, 1659-1669.	0.3	4
47	Facts and myths about zero-point thermal noise, and information entropy versus thermal entropy. , 2017, , .		0
48	Electrochemical Rejuvenation of Anodically Coloring Electrochromic Nickel Oxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42420-42424.	4.0	61
49	Controlled crystal growth orientation and surface charge effects in self-assembled nickel oxide nanoflakes and their activity for the oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28397-28407.	3.8	34
50	Anomalous diffusion of ions in electrochromic tungsten oxide films. <i>Electrochimica Acta</i> , 2017, 247, 252-257.	2.6	15
51	Fluctuation-enhanced and conductometric gas sensing with nanocrystalline NiO thin films: A comparison. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 132-139.	4.0	9
52	Thermochromic Oxide-Based Thin Films and Nanoparticle Composites for Energy-Efficient Glazings. <i>Buildings</i> , 2017, 7, 3.	1.4	34
53	(Invited) Durability of Electrochromic Films: Ageing Kinetics and Rejuvenation. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
54	Sputter-Deposited Indium-Tin Oxide Thin Films for Acetaldehyde Gas Sensing. <i>Coatings</i> , 2016, 6, 19.	1.2	5

#	ARTICLE	IF	CITATIONS
55	Zero-point term and quantum effects in the Johnson noise of resistors: a critical appraisal. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054006.	0.9	9
56	Plasmonic thin films for application in improved chromogenic windows. Journal of Physics: Conference Series, 2016, 682, 012003.	0.3	4
57	Angle dependent light scattering by gold nanospheres. Journal of Physics: Conference Series, 2016, 682, 012018.	0.3	2
58	Electrochromic properties of W _{1-x} Ni _x TiO ₃ thin films made by DC magnetron sputtering. Thin Solid Films, 2016, 615, 292-299.	0.8	9
59	Rejuvenation of degraded electrochromic MoO ₃ thin films made by DC magnetron sputtering: Preliminary results. Journal of Physics: Conference Series, 2016, 764, 012009.	0.3	11
60	Optical absorption and small-polaron hopping in oxygen deficient and lithium-ion-intercalated amorphous titanium oxide films. Journal of Applied Physics, 2016, 119, .	1.1	18
61	Optical, structural and electrochromic properties of sputter-deposited W-Mo oxide thin films. Journal of Physics: Conference Series, 2016, 764, 012010.	0.3	2
62	Sputter deposited W _{1-x} Y _x Ni _x Ti _y O ₃ thin films: Electrochromic properties and durability. Journal of Physics: Conference Series, 2016, 682, 012021.	0.3	5
63	Thermochromic light scattering from particulate VO ₂ layers. Journal of Applied Physics, 2016, 119, 085302.	1.1	7
64	Direct formation of thermochromic composite films of VO ₂ nanoparticles in SiO ₂ hosts. , 2016, , .		0
65	Band gap states in nanocrystalline WO ₃ thin films studied by soft x-ray spectroscopy and optical spectrophotometry. Journal of Physics Condensed Matter, 2016, 28, 475802.	0.7	25
66	Zero Thermal Noise in Resistors at Zero Temperature. Fluctuation and Noise Letters, 2016, 15, 1640001.	1.0	8
67	Electronic transitions induced by short-range structural order in amorphous TiO ₂ . Physical Review B, 2016, 94, .		
68	Thermochromic vanadium-dioxide-based thin films and nanoparticles: Survey of some buildings-related advances. Journal of Physics: Conference Series, 2016, 764, 012002.	0.3	4
69	Ion Trapping and Detrapping in Amorphous Tungsten Oxide Thin Films Observed by Real-Time Electro-Optical Monitoring. Chemistry of Materials, 2016, 28, 4670-4676.	3.2	75
70	Electrochromism in sputter deposited W _{1-y} Mo _y O ₃ thin films. Journal of Physics: Conference Series, 2016, 682, 012005.	0.3	9
71	Anodic Electrochromic Nickel Oxide Thin Films: Decay of Charge Density upon Extensive Electrochemical Cycling. ChemElectroChem, 2016, 3, 266-275.	1.7	39
72	Gas-phase photocatalytic activity of sputter-deposited anatase TiO ₂ films: Effect of 0.01% preferential orientation, surface temperature and humidity. Journal of Catalysis, 2016, 335, 187-196.	3.1	32

#	ARTICLE	IF	CITATIONS
73	Thermochromic VO ₂ films by thermal oxidation of vanadium in SO ₂ . Solar Energy Materials and Solar Cells, 2016, 144, 713-716.	3.0	24
74	Electrochromics for energy efficient buildings: Towards long-term durability and materials rejuvenation. Surface and Coatings Technology, 2016, 290, 135-139.	2.2	10
75	Thermochromics for Energy-Efficient Buildings: Thin Surface Coatings and Nanoparticle Composites. , 2016, , 71-96.		4
76	Low-temperature synthesis of thermochromic vanadium dioxide thin films by reactive high power impulse magnetron sputtering. Solar Energy Materials and Solar Cells, 2016, 149, 137-144.	3.0	70
77	Eliminating Electrochromic Degradation in Amorphous TiO ₂ through Li-Ion Detrapping. ACS Applied Materials & Interfaces, 2016, 8, 5777-5782.	4.0	60
78	Electrochromic Iridium-Containing Nickel Oxide Films with Excellent Electrochemical Cycling Performance. Journal of the Electrochemical Society, 2016, 163, E7-E13.	1.3	22
79	Anodic Electrochromism for Energy-Efficient Windows: Cation/Anion-Based Surface Processes and Effects of Crystal Facets in Nickel Oxide Thin Films. Advanced Functional Materials, 2015, 25, 3359-3370.	7.8	111
80	Resistance noise at the metal-insulator transition in thermochromic VO ₂ films. Journal of Applied Physics, 2015, 117, .	1.1	13
81	Galvanostatic Ion Detrapping Rejuvenates Oxide Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 26387-26390.	4.0	77
82	Electrochemical measurements of the electronic density of states. Physica Scripta, 2015, 90, 094005.	1.2	4
83	Nickel oxide thin film sensor for fluctuation-enhanced gas sensing of formaldehyde. , 2015, , .		0
84	Non-Gaussian distributions of melodic intervals in music: The Lévy-stable approximation. Europhysics Letters, 2015, 112, 40003.	0.7	3
85	Simulation of the thickness dependence of the optical properties of suspended particle devices. Solar Energy Materials and Solar Cells, 2015, 143, 613-622.	3.0	47
86	Electrochromics for energy efficient buildings: Towards long-term durability and materials rejuvenation. Surface and Coatings Technology, 2015, 278, 121-125.	2.2	23
87	Quantitative relation between photocatalytic activity and degree of 001 orientation for anatase TiO ₂ thin films. Journal of Materials Chemistry A, 2015, 3, 17369-17375.	5.2	16
88	Sputter deposition of thermochromic VO ₂ films on In ₂ O ₃ :Sn, SnO ₂ , and glass: Structure and composition versus oxygen partial pressure. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	0.6	25
89	Strongly Improved Electrochemical Cycling Durability by Adding Iridium to Electrochromic Nickel Oxide Films. ACS Applied Materials & Interfaces, 2015, 7, 9319-9322.	4.0	54
90	Eliminating degradation and uncovering ion-trapping dynamics in electrochromic WO ₃ thin films. Nature Materials, 2015, 14, 996-1001.	13.3	474

#	ARTICLE	IF	CITATIONS
91	Electrochromism and small-polaron hopping in oxygen deficient and lithium intercalated amorphous tungsten oxide films. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	52
92	Progress in Electrochromics: Towards Long-Term Durability and Materials Rejuvenation for Oxide-Based Thin Films. <i>ECS Transactions</i> , 2015, 66, 9-16.	0.3	0
93	Sustainable Rejuvenation of Electrochromic WO ₃ Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28100-28104.	4.0	73
94	Properties of bruggeman dielectric mixture expression. , 2014, , .		3
95	Electrochromic performance of Ni oxide thin films intercalated with Li ⁺ ions. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012006.	0.3	3
96	Fabrication of photonic opal structures on different support materials by convective evaporation. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012007.	0.3	1
97	Optical properties of nanocrystalline WO ₃ and WO _{3-x} thin films prepared by DC magnetron sputtering. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	93
98	Characterization of gold nanoparticle films: Rutherford backscattering spectroscopy, scanning electron microscopy with image analysis, and atomic force microscopy. <i>AIP Advances</i> , 2014, 4, 107101.	0.6	5
99	Preferential Orientation and Surface Oxidation Control in Reactively Sputter Deposited Nanocrystalline SnO ₂ :Sb Films: Electrochemical and Optical Results. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, N151-N153.	0.9	12
100	Electronic density-of-states of amorphous vanadium pentoxide films: Electrochemical data and density functional theory calculations. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	16
101	Cyclic voltammetry on sputter-deposited films of electrochromic Ni oxide: Power-law decay of the charge density exchange. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	25
102	Electrochromic Properties of Li ⁺ -Intercalated Amorphous Tungsten (WO _{3-x}) and Titanium (TiO _{2-x}) Oxide Thin Films. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012004.	0.3	7
103	Thermochromic vanadium oxide thin films: Electronic and optical properties. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012001.	0.3	21
104	Durability of thermochromic VO ₂ thin films under heating and humidity: Effect of Al oxide top coatings. <i>Thin Solid Films</i> , 2014, 562, 568-573.	0.8	69
105	Electrochromism in sputter-deposited Wâ€Ti oxide films: Durability enhancement due to Ti. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 184-189.	3.0	87
106	Ion conduction mechanism of nanocomposite polymer electrolytes comprised of polyethyleneimineâ€lithium bis(trifluoromethylsulfonyl)imide and silica. <i>Electrochimica Acta</i> , 2014, 119, 164-168.	2.6	9
107	Electrochromic iridium oxide films: Compatibility with propionic acid, potassium hydroxide, and lithium perchlorate in propylene carbonate. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 151-156.	3.0	29
108	Thermochromic undoped and Mg-doped VO ₂ thin films and nanoparticles: Optical properties and performance limits for energy efficient windows. <i>Journal of Applied Physics</i> , 2014, 115, 053513.	1.1	51

#	ARTICLE	IF	CITATIONS
109	Nanoparticles of TiO ₂ and VO ₂ in dielectric media: Conditions for low optical scattering, and comparison between effective medium and four-flux theories. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 132-137.	3.0	73
110	Electrochromic nickel oxide films and their compatibility with potassium hydroxide and lithium perchlorate in propylene carbonate: Optical, electrochemical and stress-related properties. <i>Thin Solid Films</i> , 2014, 565, 128-135.	0.8	62
111	Lithium intercalation in sputter deposited antimony-doped tin oxide thin films: Evidence from electrochemical and optical measurements. <i>Journal of Applied Physics</i> , 2014, 115, 153702.	1.1	7
112	Electrochromism of DC magnetron-sputtered TiO ₂ : Role of film thickness. <i>Applied Surface Science</i> , 2014, 318, 24-27.	3.1	16
113	Electrochromics and thermochromics for energy efficient fenestration: Functionalities based on nanoparticles of In ₂ O ₃ :Sn and VO ₂ . <i>Thin Solid Films</i> , 2014, 559, 2-8.	0.8	33
114	Electrochromic devices with polymer electrolytes functionalized by SiO ₂ and In ₂ O ₃ :Sn nanoparticles: Rapid coloring/bleaching dynamics and strong near-infrared absorption. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 241-247.	3.0	33
115	Structure and optical properties of electrochromic tungsten-containing nickel oxide films. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 248-259.	3.0	32
116	Porous Nickel Oxide Film Sensor for Formaldehyde. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012012.	0.3	4
117	Durability of VO ₂ -based thin films at elevated temperature: Towards thermochromic fenestration. <i>Journal of Physics: Conference Series</i> , 2014, 559, 012005.	0.3	6
118	Thin sputter deposited gold films on In ₂ O ₃ :Sn, SnO ₂ :In, TiO ₂ and glass: Optical, electrical and structural effects. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 462-470.	3.0	31
119	Electrochromism of DC magnetron sputtered TiO ₂ thin films: Role of deposition parameters. <i>Solar Energy Materials and Solar Cells</i> , 2013, 115, 172-180.	3.0	44
120	Low-frequency dielectric properties of three bentonites at different adsorbed water states. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 16-26.	5.0	30
121	Toward a quantitative model for suspended particle devices: Optical scattering and absorption coefficients. <i>Solar Energy Materials and Solar Cells</i> , 2013, 111, 115-122.	3.0	58
122	Electronic and optical properties of nanocrystalline WO ₃ thin films studied by optical spectroscopy and density functional calculations. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 205502.	0.7	43
123	Thermochromic VO ₂ nanorods made by sputter deposition: Growth conditions and optical modeling. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	36
124	Bandgap widening in thermochromic Mg-doped VO ₂ thin films: Quantitative data based on optical absorption. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	72
125	Progress in Chromogenic Materials and Devices: New Data on Electrochromics and Thermochromics. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1492, 99-110.	0.1	2
126	Electrochromics and Thermochromics for Energy Efficient Fenestration: New Applications Based on Transparent Conducting Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1558, 1.	0.1	1

#	ARTICLE	IF	CITATIONS
127	Plasmon-induced near-infrared electrochromism based on transparent conducting nanoparticles: Approximate performance limits. Applied Physics Letters, 2012, 101, 071903.	1.5	31
128	A polymer electrolyte with high luminous transmittance and low solar throughput: Polyethyleneimine-lithium bis(trifluoromethylsulfonyl) imide with In ₂ O ₃ :Sn nanocrystals. Applied Physics Letters, 2012, 100, 241902.	1.5	31
129	Structural and optical properties of visible active photocatalytic WO ₃ thin films prepared by reactive dc magnetron sputtering. Journal of Materials Research, 2012, 27, 3130-3140.	1.2	33
130	Ellipsometrically determined optical properties of nickel-containing tungsten oxide thin films: Nanostructure inferred from effective medium theory. Journal of Applied Physics, 2012, 112, .	1.1	5
131	Spectroscopic Study of the Photofixation of SO ₂ on Anatase TiO ₂ Thin Films and Their Oleophobic Properties. ACS Applied Materials & Interfaces, 2012, 4, 672-679.	4.0	40
132	Plasma emission monitoring (PEM) controlled DC reactive sputtered ZnO:Al thin films. Vacuum, 2012, 86, 1939-1944.	1.6	3
133	Optical properties of Mg-doped VO ₂ : Absorption measurements and hybrid functional calculations. Applied Physics Letters, 2012, 101, .	1.5	70
134	[PEI@SiO ₂]:[LiTFSI] nanocomposite polymer electrolytes: Ion conduction and optical properties. Solar Energy Materials and Solar Cells, 2012, 98, 465-471.	3.0	32
135	Electrochromism in sputter deposited nickel-containing tungsten oxide films. Solar Energy Materials and Solar Cells, 2012, 99, 339-344.	3.0	74
136	Electrochromic properties of nickel oxide based thin films sputter deposited in the presence of water vapor. Thin Solid Films, 2012, 520, 3839-3842.	0.8	30
137	Thermochromic fenestration with VO ₂ -based materials: Three challenges and how they can be met. Thin Solid Films, 2012, 520, 3823-3828.	0.8	257
138	Thin gold films on SnO ₂ :In: Temperature-dependent effects on the optical properties. Thin Solid Films, 2012, 520, 3688-3691.	0.8	13
139	Unveiling the complex electronic structure of amorphous metal oxides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6355-6360.	3.3	102
140	Thermochromism of VO ₂ Nanoparticles: Calculated Optical Properties and Applications to Energy Efficient Windows. Materials Research Society Symposia Proceedings, 2011, 1315, 1.	0.1	2
141	Spectrally selective reflector surfaces for heat reduction in concentrator solar cells: modeling and applications of TiO ₂ :Nb-based thin films. Applied Optics, 2011, 50, 3296.	2.1	14
142	Spectral density analysis of the optical properties of Ni-Al ₂ O ₃ nano-composite films. , 2011, , .		3
143	Ion conduction of branched polyethyleneimine@lithium bis(trifluoromethylsulfonyl) imide electrolytes. Electrochimica Acta, 2011, 57, 201-206.	2.6	24
144	Au thin films deposited on SnO ₂ :In and glass: Substrate effects on the optical and electrical properties. Thin Solid Films, 2011, 519, 1930-1933.	0.8	18

#	ARTICLE	IF	CITATIONS
145	Structure and composition of sputter-deposited nickel-tungsten oxide films. <i>Thin Solid Films</i> , 2011, 519, 2062-2066.	0.8	64
146	Optical properties of thin films of mixed Ni-W oxide made by reactive DC magnetron sputtering. <i>Thin Solid Films</i> , 2011, 519, 2914-2918.	0.8	18
147	A thermochromic low-emittance coating: Calculations for nanocomposites of In ₂ O ₃ :Sn and VO ₂ . <i>Applied Physics Letters</i> , 2011, 99, 131907.	1.5	20
148	Fluctuation-enhanced gas sensing in practice. , 2011, , .		6
149	Oxide-Based Electrochromics: Advances in Materials and Devices. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1328, 20101.	0.1	6
150	Nanothermochromics with VO ₂ -based core-shell structures: Calculated luminous and solar optical properties. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	96
151	Transparent and conducting TiO ₂ :Nb films made by sputter deposition: Application to spectrally selective solar reflectors. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 75-79.	3.0	28
152	Advances in chromogenic materials and devices. <i>Thin Solid Films</i> , 2010, 518, 3046-3053.	0.8	184
153	Spectroscopic ellipsometry characterization of electrochromic tungsten oxide and nickel oxide thin films made by sputter deposition. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 724-732.	3.0	88
154	PEI-LiTFSI electrolytes for electrochromic devices: Characterization by differential scanning calorimetry and viscosity measurements. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2399-2404.	3.0	24
155	Ageing of electrochromic WO ₃ coatings characterized by electrochemical impedance spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1772-1776.	0.8	12
156	Au-Based Transparent Conductors for Window Applications: Effect of Substrate Material. <i>Advances in Science and Technology</i> , 2010, 75, 25-30.	0.2	0
157	Ionic relaxation in polyethyleneimine-lithium bis(trifluoromethylsulfonyle) imide polymer electrolytes. <i>Journal of Applied Physics</i> , 2010, 108, 074102.	1.1	27
158	Optical band-gap determination of nanostructured WO ₃ film. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	281
159	Nanothermochromics: Calculations for VO ₂ nanoparticles in dielectric hosts show much improved luminous transmittance and solar energy transmittance modulation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	207
160	Determination of electronic structure by impedance spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 705-709.	1.5	12
161	Concentration dependence of ionic relaxation in lithium doped polymer electrolytes. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 710-714.	1.5	15
162	Electrochromism in nickel oxide and tungsten oxide thin films: Ion intercalation from different electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2050-2055.	3.0	83

#	ARTICLE	IF	CITATIONS
163	Thermochromic VO ₂ -based multilayer films with enhanced luminous transmittance and solar modulation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2155-2160.	0.8	160
164	TiO ₂ /Au/TiO ₂ multilayer thin films: Novel metal-based transparent conductors for electrochromic devices. <i>Thin Solid Films</i> , 2009, 518, 1225-1229.	0.8	66
165	Photo-fixation of SO ₂ in nanocrystalline TiO ₂ films prepared by reactive DC magnetron sputtering. <i>Thin Solid Films</i> , 2009, 518, 1341-1344.	0.8	17
166	Optical properties of sputter deposited transparent and conducting TiO ₂ :Nb films. <i>Thin Solid Films</i> , 2009, 518, 1254-1258.	0.8	40
167	Progress in chromogenics: New results for electrochromic and thermochromic materials and devices. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2032-2039.	3.0	266
168	Thermochromic multilayer films of VO ₂ and TiO ₂ with enhanced transmittance. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1685-1687.	3.0	232
169	Electrochemical characterization of TiO ₂ blocking layers prepared by reactive DC magnetron sputtering. <i>Journal of Electroanalytical Chemistry</i> , 2009, 637, 79-83.	1.9	48
170	Coloration Mechanism in Proton-Intercalated Electrochromic Hydrated NiO _y and Ni _x V _x O _y Thin Films. <i>Journal of the Electrochemical Society</i> , 2009, 156, P132.	1.3	54
171	Mg doping of thermochromic VO ₂ films enhances the optical transmittance and decreases the metal-insulator transition temperature. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	233
172	Optical modeling of spectrally selective reflectors based on TiO ₂ :Nb transparent conducting oxide films for silicon solar cell applications. , 2009, , .		1
173	Electrochromic foil-based devices: Optical transmittance and modulation range, effect of ultraviolet irradiation, and quality assessment by 1/f current noise. <i>Thin Solid Films</i> , 2008, 516, 5921-5926.	0.8	40
174	Performance comparison of Cu(In,Ga)Se ₂ solar cells fabricated using RF and DC sputtered ZnO:Al transparent conducting oxides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 612-615.	0.8	2
175	Optical properties of non-dilute metal-insulator composites. <i>Optics Communications</i> , 2008, 281, 4374-4379.	1.0	11
176	Iridium-based oxides: Recent advances in coloration mechanism, structural and morphological characterization. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 91-96.	3.0	22
177	Proton diffusion in polyethylene oxide: Relevance to electrochromic device design. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1293-1297.	3.0	6
178	Optical properties of electrochromic iridium oxide and iridium-tantalum oxide thin films in different colouration states. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1388-1392.	3.0	27
179	Optical properties of amorphous tungsten oxide films: Effect of stoichiometry.. <i>Journal of Physics: Conference Series</i> , 2008, 100, 082023.	0.3	5
180	Determination of solid phase chemical diffusion coefficient and density of states by electrochemical methods: Application to iridium oxide-based thin films. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	24

#	ARTICLE	IF	CITATIONS
181	Optical absorption in lithiated tungsten oxide thin films: Experiment and theory. Journal of Applied Physics, 2007, 102, .	1.1	78
182	Charge transport between localized states in lithium-intercalated amorphous tungsten oxide. Journal of Non-Crystalline Solids, 2007, 353, 4376-4379.	1.5	11
183	Resistance noise in TiO ₂ -based thin film gas sensors under ultraviolet irradiation. Journal of Physics: Conference Series, 2007, 76, 012056.	0.3	19
184	Electrochromics for smart windows: thin films of tungsten oxide and nickel oxide, and devices based on these. Journal of Materials Chemistry, 2007, 17, 127-156.	6.7	1,182
185	Infrared absorption in Li-intercalated tungsten oxide. Solar Energy Materials and Solar Cells, 2007, 91, 1248-1252.	3.0	2
186	Sputter deposited electrochromic films and devices based on these: Progress on nickel-oxide-based films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 138, 112-117.	1.7	40
187	Electron transport and recombination in dye sensitized solar cells fabricated from obliquely sputter deposited and thermally annealed TiO ₂ films. Journal of Electroanalytical Chemistry, 2007, 605, 151-156.	1.9	38
188	Electrochromics: Fundamentals and energy-related applications of oxide-based devices. Applied Physics A: Materials Science and Processing, 2007, 89, 29-35.	1.1	50
189	Fractal dimensions of niobium oxide films probed by protons and lithium ions. Journal of Applied Physics, 2006, 100, 053506.	1.1	3
190	Optical charge transfer absorption in lithium-intercalated tungsten oxide thin films. Applied Physics Letters, 2006, 88, 081906.	1.5	44
191	Diffuse reflectance of TiO ₂ pigmented paints: Spectral dependence of the average pathlength parameter and the forward scattering ratio. Optics Communications, 2006, 261, 71-78.	1.0	37
192	Electrochemical studies of the electron states of disordered electrochromic oxides. Solar Energy Materials and Solar Cells, 2006, 90, 385-394.	3.0	11
193	Electrochemical and optical properties of sputter deposited Ir-Ta and Ir oxide thin films. Solar Energy Materials and Solar Cells, 2006, 90, 414-421.	3.0	30
194	Electrochromic materials and devices: Brief survey and new data on optical absorption in tungsten oxide and nickel oxide films. Thin Solid Films, 2006, 496, 30-36.	0.8	170
195	ELECTRONIC STATES IN INTERCALATION MATERIALS STUDIED BY ELECTROCHEMICAL TECHNIQUES. Modern Physics Letters B, 2006, 20, 863-875.	1.0	10
196	<title>Flexible electrochromic foils: science, technology, and application</title>. , 2005, , .		1
197	Flexible foils with electrochromic coatings: science, technology and applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 119, 214-223.	1.7	92
198	Microstructure of sputter deposited tin doped indium oxide films with silver additive. Thin Solid Films, 2005, 479, 107-112.	0.8	6

#	ARTICLE	IF	CITATIONS
199	Influence of sputtering conditions on the solar and luminous optical properties of amorphous Li ₂ WO ₄ thin films. <i>Solar Energy Materials and Solar Cells</i> , 2005, 85, 573-586.	3.0	13
200	Thin porous indium tin oxide nanoparticle films: effects of annealing in vacuum and air. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 1363-1368.	1.1	45
201	H ⁺ Conduction in Solid-State Electrochromic Devices Analyzed by Transient Current Measurements. <i>Journal of the Electrochemical Society</i> , 2005, 152, A377.	1.3	8
202	Proton Diffusion and Electrochromism in Hydrated NiO _y and Ni _{1-x} V _x O _y Thin Films. <i>Journal of the Electrochemical Society</i> , 2005, 152, F203.	1.3	52
203	Random conductivity of $\hat{\Gamma}$ -Bi ₂ O ₃ films. <i>Applied Physics Letters</i> , 2005, 86, 241910.	1.5	30
204	Changes in the Local Structure of Nanocrystalline Electrochromic Films of Hydrated Nickel Vanadium Oxide upon Ozone-Induced Coloration. <i>Physica Scripta</i> , 2005, , 464.	1.2	17
205	New Probe of the Electronic Structure of Amorphous Materials. <i>Physical Review Letters</i> , 2004, 93, 206403.	2.9	30
206	Dielectric Permittivity and Intercalation Parameters of Li Ion Intercalated Atomic Layer Deposited ZrO ₂ . <i>Journal of the Electrochemical Society</i> , 2004, 151, F54.	1.3	2
207	A theoretical feasibility study of pigments for thickness-sensitive spectrally selective paints. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1115-1122.	1.3	32
208	Comment on "Infrared spectra and second-harmonic generation in barium strontium titanate and lead zirconate titanate thin films: "Polaron" artifacts". <i>J. Appl. Phys.</i> 94, 3333 (2003)]. <i>Journal of Applied Physics</i> , 2004, 96, 2409-2409.	1.1	0
209	Experimental and Monte Carlo analysis of isotropic multiple Mie scattering. <i>Optics Communications</i> , 2004, 240, 9-17.	1.0	18
210	Electrochromism in nickel oxide films containing Mg, Al, Si, V, Zr, Nb, Ag, or Ta. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 337-350.	3.0	111
211	Electrochromic tungsten oxide: the role of defects. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 315-328.	3.0	94
212	Angle-dependent light scattering in materials with controlled diffuse solar optical properties. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 427-439.	3.0	13
213	Electrical conductivity as a function of temperature in amorphous lithium tungsten oxide. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 329-336.	3.0	21
214	Optical properties of electrochromic all-solid-state devices. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 351-360.	3.0	39
215	Small polaron formation in porous WO _{3-x} nanoparticle films. <i>Journal of Applied Physics</i> , 2004, 96, 5722-5726.	1.1	55
216	Infrared emittance modulation of all-thin-film electrochromic devices. <i>Materials Letters</i> , 2004, 58, 2517-2520.	1.3	46

#	ARTICLE	IF	CITATIONS
217	Nickel-oxide-based electrochromic films with optimized optical properties. Journal of Solid State Electrochemistry, 2003, 8, 37-39.	1.2	15
218	Optical absorption and durability of sputtered amorphous tungsten oxide films. Solid State Ionics, 2003, 165, 51-58.	1.3	33
219	Optimized nickel-oxide-based electrochromic thin films. Solid State Ionics, 2003, 165, 169-173.	1.3	37
220	Oxidation kinetics of metallic nanoparticles. Surface Science, 2003, 532-535, 324-327.	0.8	22
221	Indium tin oxide films made from nanoparticles: models for the optical and electrical properties. Thin Solid Films, 2003, 445, 199-206.	0.8	127
222	Dye-sensitized sputtered titanium oxide films for photovoltaic applications: influence of the O ₂ /Ar gas flow ratio during the deposition. Solar Energy Materials and Solar Cells, 2003, 76, 37-56.	3.0	24
223	Electrical and optical properties of thin films consisting of tin-doped indium oxide nanoparticles. Physical Review B, 2003, 68, .	1.1	170
224	Characterization of porous indium tin oxide thin films using effective medium theory. Journal of Applied Physics, 2003, 93, 984-988.	1.1	39
225	Densification-induced conductivity percolation in high-porosity pharmaceutical microcrystalline cellulose compacts. Applied Physics Letters, 2003, 82, 648-650.	1.5	8
226	Extinction calculations of multi-sphere polycrystalline graphitic clusters. Astronomy and Astrophysics, 2003, 411, 481-482.	2.1	1
227	Optical constants of gold blacks: Fractal network models and experimental data. Physical Review B, 2002, 65, .	1.1	7
228	Extinction calculations of multi-sphere polycrystalline graphitic clusters. Astronomy and Astrophysics, 2002, 386, 296-307.	2.1	7
229	Electrical and optical properties of thin films prepared by spin coating a dispersion of nano-sized tin-doped indium oxide particles. Smart Materials and Structures, 2002, 11, 675-678.	1.8	17
230	Coupled multipolar interactions in small-particle metallic clusters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 513.	0.8	7
231	Electrical properties of ZrO ₂ thin films. Thin Solid Films, 2002, 402, 242-247.	0.8	45
232	Reflectance of pigmented polymer coatings: comparisons between measurements and radiative transfer calculations. Applied Optics, 2001, 40, 85.	2.1	8
233	Optical characterization method for black pigments applied to solar-selective absorbing paints. Applied Optics, 2001, 40, 1672.	2.1	8
234	Transparent Conductive Tin Doped Indium Oxide Thin Films with Silver Additive. Materials Research Society Symposia Proceedings, 2001, 666, 191.	0.1	1

#	ARTICLE	IF	CITATIONS
235	<title>Optical absorption in amorphous LixWOy films: influence of sputtering conditions</title>. , 2001, , .		4
236	<title>Electrical and optical properties of thin films prepared by spin coating a dispersion of nano-sized tin-doped indium-oxide particles</title>. , 2001, 4590, 280.		5
237	Electrical and optical properties of sputter deposited tin doped indium oxide thin films with silver additive. Thin Solid Films, 2001, 392, 305-310.	0.8	24
238	Surface smoothing and roughening in sputtered SnO ₂ films. Thin Solid Films, 2001, 401, 165-170.	0.8	22
239	Polaron absorption in tungsten oxide nanoparticle aggregates. Electrochimica Acta, 2001, 46, 1967-1971.	2.6	40
240	Dielectric and Li transport properties of electron conducting and non-conducting sputtered amorphous Ta ₂ O ₅ films. Electrochimica Acta, 2001, 46, 2041-2046.	2.6	19
241	Sputter-deposited Ti oxide films used for photoelectrocatalytic degradation of 4-chlorophenol. Journal of Materials Science, 2001, 36, 3699-3705.	1.7	16
242	Optical properties of nano-structured dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2001, 69, 147-163.	3.0	61
243	Optical characterization and modeling of black pigments used in thickness-sensitive solar-selective absorbing paints. Solar Energy, 2001, 69, 35-43.	2.9	20
244	Dielectric study of thin films of Ta ₂ O ₅ and ZrO ₂ . IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 648-651.	1.8	4
245	<title>Properties of electrochromic nickel-vanadium oxide films sputter-deposited from nonmagnetic alloy target</title>. , 2001, 4458, 154.		5
246	Oxidation kinetics of nickel solar absorber nanoparticles. Journal Physics D: Applied Physics, 2001, 34, 400-406.	1.3	4
247	Oxidation kinetics of nickel nanoparticles. Journal of Applied Physics, 2001, 89, 3012-3017.	1.1	53
248	Observability of resonance optical structure in fractal metallic clusters. Journal of Applied Physics, 2001, 90, 1275-1279.	1.1	11
249	(Ta _{1-x} Nb _x) ₂ O ₅ films produced by atomic layer deposition: Temperature dependent dielectric spectroscopy and room-temperature I-V characteristics. Journal of Applied Physics, 2001, 90, 4532-4542.	1.1	23
250	Li Conduction in Sputtered Amorphous Ta ₂ O ₅ . Journal of the Electrochemical Society, 2001, 148, A418.	1.3	15
251	Polaron absorption in amorphous tungsten oxide films. Journal of Applied Physics, 2001, 90, 1860-1863.	1.1	75
252	<title>Infrared optical properties of sputtered WO$_3$</title>. , 2000, , .		3

#	ARTICLE	IF	CITATIONS
253	Microscopic spectrophotometry applied to quasifractal gold particle clusters. , 2000, , .		0
254	Light Scattering in Pigmented Coatings:. Solar Energy, 2000, 68, 553-561.	2.9	36
255	Surface roughness of pyrolytic tin dioxide films evaluated by different methods. Thin Solid Films, 2000, 359, 203-209.	0.8	22
256	Thickness dependence of the optical properties of sputter deposited Ti oxide films. Thin Solid Films, 2000, 365, 119-125.	0.8	120
257	Titaniumâ€“aluminumâ€“nitride coatings for satellite temperature control. Thin Solid Films, 2000, 370, 268-277.	0.8	50
258	A new method of characterising liquid uptake within particles over short time periods. International Journal of Pharmaceutics, 2000, 199, 179-185.	2.6	11
259	Characterisation of instantaneous water absorption properties of pharmaceutical excipients. International Journal of Pharmaceutics, 2000, 202, 141-149.	2.6	18
260	Oxidation Kinetics of Nickel Particles: Comparison Between Free Particles and Particles in an Oxide Matrix. Solar Energy, 2000, 68, 329-333.	2.9	90
261	Alternating current characterization of sputter deposited Ti oxide films. Journal Physics D: Applied Physics, 2000, 33, 24-27.	1.3	2
262	Surface roughness in sputtered SnO ₂ films studied by atomic force microscopy and spectroscopic light scattering. Journal of Applied Physics, 2000, 87, 4562-4571.	1.1	4
263	Li Intercalation in Zirconium Dioxide Films. Defect and Diffusion Forum, 2000, 177-178, 51-58.	0.4	6
264	Oxidation kinetics of large nickel particles. Journal of Materials Research, 1999, 14, 3051-3058.	1.2	21
265	Oxidation kinetics of small nickel particles. Journal of Applied Physics, 1999, 85, 1186-1191.	1.1	48
266	Optical properties of quasifractal metal nanoparticle aggregates. Scripta Materialia, 1999, 12, 135-138.	0.5	2
267	The real origin of lognormal size distributions of nanoparticles in vapor growth processes. Scripta Materialia, 1999, 12, 327-332.	0.5	54
268	New approach to the origin of lognormal size distributions of nanoparticles. Nanotechnology, 1999, 10, 25-28.	1.3	179
269	A frequency response and transient current study of $\hat{\Gamma}^2$ -Ta ₂ O ₅ : Methods of estimating the dielectric constant, direct current conductivity, and ion mobility. Journal of Applied Physics, 1999, 85, 2185-2191.	1.1	102
270	Isothermal transient ionic current as a characterization technique for ion transport in Ta ₂ O ₅ . Journal of Applied Physics, 1999, 85, 8199-8204.	1.1	49

#	ARTICLE	IF	CITATIONS
271	Optical properties of square lattices of gold nanoparticles. Scripta Materialia, 1999, 12, 725-730.	0.5	21
272	<title>Thin film coatings with variable emittance</title>. , 1999, , .		11
273	Dielectric Characterization of Thin Films Consisting of Tin Doped Indium Oxide Nanoparticles. Materials Research Society Symposia Proceedings, 1999, 581, 491.	0.1	1
274	Temperature Dependence of the Electrical Resistivity in Nanocrystalline Gold Films Made by Advanced GaS Deposition. Materials Research Society Symposia Proceedings, 1999, 581, 541.	0.1	4
275	Recent advances in electrochromics for smart windows applications. Solar Energy, 1998, 63, 199-216.	2.9	283
276	Light scattering coatings: Theory and solar applications. Solar Energy Materials and Solar Cells, 1998, 54, 343-350.	3.0	15
277	A feasibility study of integrally colored Al ⁺ Si as a solar selective absorber. Solar Energy Materials and Solar Cells, 1998, 55, 251-265.	3.0	7
278	Lognormal Size Distributions in Particle Growth Processes without Coagulation. Physical Review Letters, 1998, 80, 2386-2388.	2.9	183
279	Forward-scattering ratios and average pathlength parameter in radiative transfer models. Journal of Physics Condensed Matter, 1997, 9, 9083-9096.	0.7	24
280	Diffusion of Li, Na, and K in fluorinated Ti dioxide films: Applicability of the Anderson ⁺ Stuart model. Journal of Applied Physics, 1997, 81, 2167-2172.	1.1	14
281	<title>Surface roughness in sputtered tin oxide films studied by light scattering and atomic force microscopy</title>. , 1997, , .		1
282	Angular selective window coatings: theory and experiments. Journal Physics D: Applied Physics, 1997, 30, 2103-2122.	1.3	80
283	Optical properties of silicon pigmented alumina films. Journal of Applied Physics, 1997, 82, 3508-3513.	1.1	9
284	Pigment mass density and refractive index determination from optical measurements. Journal of Physics Condensed Matter, 1997, 9, 1661-1670.	0.7	18
285	Li intercalation in transparent Ti ⁺ Ce oxide films: Energetics and ion dynamics. Journal of Applied Physics, 1997, 81, 6432-6437.	1.1	39
286	Forward average path-length parameter in four-flux radiative transfer models. Applied Optics, 1997, 36, 3735.	2.1	36
287	Applicability conditions of the Kubelka ⁺ Munk theory. Applied Optics, 1997, 36, 5580.	2.1	206
288	Generalized method for evaluating scattering parameters used in radiative transfer models. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2243.	0.8	30

#	ARTICLE	IF	CITATIONS
289	Intensity of diffuse radiation in particulate media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2253.	0.8	25
290	Dielectric relaxations in liquid-impregnated porous solids. Journal of Materials Science, 1997, 32, 3783-3800.	1.7	22
291	Anisotropic optical, magnetic, and electrical properties of obliquely evaporated Ni films. Thin Solid Films, 1997, 307, 245-249.	0.8	22
292	Effects of microgeometry on the permittivity of impregnated porous media. Journal of Physics Condensed Matter, 1996, 8, 7049-7058.	0.7	11
293	Impedance studies on Li insertion electrodes of Sn oxide and oxyfluoride. Journal of Applied Physics, 1996, 80, 233-241.	1.1	30
294	Conductivity of random sphere packings: Effects of a size distribution. Physical Review E, 1996, 53, 3864-3866.	0.8	2
295	Fractal surface dimension from cyclic voltammetry studies and atomic-force microscopy: Role of noncontiguous reaction sites. Physical Review B, 1996, 54, 17884-17887.	1.1	18
296	Impedance spectroscopy on lithiated Ti oxide and Ti oxyfluoride thin films. Journal of Applied Physics, 1996, 79, 3749-3757.	1.1	45
297	Fractal dimension of Li insertion electrodes studied by diffusion-controlled voltammetry and impedance spectroscopy. Physical Review B, 1996, 54, 2968-2971.	1.1	28
298	Simple Expressions for the Dielectric Response of Suspensions in an Electrolyte. Journal of Colloid and Interface Science, 1996, 181, 165-168.	5.0	17
299	Scaling of surface roughness in evaporated calcium fluoride films. Solid State Communications, 1996, 97, 965-969.	0.9	22
300	Angular selective window coatings: Effective medium theory and experimental data on sputter-deposited films. Renewable Energy, 1996, 8, 530-539.	4.3	11
301	Angular selective optical properties of thin films: Measurement of polar and azimuthal transmittance. Solar Energy Materials and Solar Cells, 1996, 44, 397-403.	3.0	20
302	Ion transport in porous Sn oxide films: Cyclic voltammograms interpreted in terms of a fractal dimension. Solid State Communications, 1996, 99, 109-111.	0.9	19
303	Surface roughness of sputtered ZrO ₂ films studied by atomic force microscopy and spectroscopic light scattering. Physical Review E, 1996, 54, 4021-4026.	0.8	22
304	Angular selective optical transmittance through obliquely evaporated Cr films: Experiments and theory. Journal of Applied Physics, 1996, 80, 5361-5364.	1.1	22
305	The dielectric dispersion of liquid-filled porous sintered materials. Journal of Physics Condensed Matter, 1996, 8, 2781-2790.	0.7	11
306	Angular selectivity of the infrared transmittance through obliquely sputter-deposited Ti-oxide-based films. Thin Solid Films, 1995, 266, 94-95.	0.8	10

#	ARTICLE	IF	CITATIONS
307	Surface roughness effects in ellipsometry: comparison of truncated sphere and effective medium models. <i>Optical Materials</i> , 1995, 4, 815-821.	1.7	13
308	Radiative cooling during the day: simulations and experiments on pigmented polyethylene cover foils. <i>Solar Energy Materials and Solar Cells</i> , 1995, 37, 93-118.	3.0	182
309	Optical properties of a pair of spheres: comparison of different theories. <i>Optics Communications</i> , 1995, 115, 8-12.	1.0	11
310	Voltammetry on fractals. <i>Solid State Communications</i> , 1995, 96, 151-154.	0.9	85
311	Physical and electrochemical properties of Li-intercalated Sn oxide films made by sputtering. <i>Ionics</i> , 1995, 1, 400-405.	1.2	6
312	Scaling of Surface Roughness in Obliquely Sputtered Chromium Films. <i>Europhysics Letters</i> , 1995, 32, 155-159.	0.7	31
313	Angular-selective optical transmittance of highly transparent Al-oxide-based films made by oblique-angle sputtering. <i>Journal of Applied Physics</i> , 1995, 78, 2894-2896.	1.1	19
314	Obliquely evaporated Cr films with large angular selectivity. <i>Journal of Applied Physics</i> , 1995, 77, 2816-2818.	1.1	36
315	Determination of fractal dimension by cyclical-Vstudies: The Laplace-transform method. <i>Physical Review B</i> , 1995, 52, 14192-14197.	1.1	54
316	Angular selective optical transmittance through Cr-based films made by oblique angle sputtering: experiment and theory. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 600-602.	1.3	7
317	Influence of surface roughness on the infrared reststrahlen band. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 7173-7184.	0.7	7
318	The effect of inhomogeneities on the infrared reststrahlen band of beryllium oxide. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 8507-8518.	0.7	3
319	The effects of salinity on low-frequency dielectric dispersion in liquid-impregnated porous solids. <i>Journal of Physics Condensed Matter</i> , 1995, 7, L619-L624.	0.7	10
320	Approximate determination of surface conductivity in porous media. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 2037-2045.	1.3	18
321	Angular-selective optical transmittance of anisotropic inhomogeneous Cr-based films made by sputtering. <i>Journal of Applied Physics</i> , 1995, 77, 6145-6151.	1.1	50
322	Condensation of water by radiative cooling. <i>Renewable Energy</i> , 1994, 5, 310-317.	4.3	68
323	On the low frequency permittivity of liquid-filled porous media. <i>Solid State Communications</i> , 1994, 90, 201-204.	0.9	9
324	<title>Angular selective window coatings</title>. , 1994, 2255, 182.		2

#	ARTICLE	IF	CITATIONS
325	Adsorption on fractal structures: applications to cement materials. Cement and Concrete Research, 1993, 23, 1153-1158.	4.6	12
326	Fractal structure of metal particle aggregates and porous materials. Physica Scripta, 1993, T49B, 659-662.	1.2	10
327	A fractal description of the dielectric response of disordered materials. Journal of Physics Condensed Matter, 1993, 5, 4233-4242.	0.7	23
328	Relaxation processes in insulator thin films. Journal of Physics Condensed Matter, 1992, 4, 10479-10486.	0.7	4
329	<title>Degradation modes of cermet-based selectively solar absorbing coatings</title>. , 1992, , .		3
330	W oxide/polymer laminate/V oxide electrochromic smart windows: recent advances. , 1992, 1728, 103.		4
331	Dielectric properties of cement mortar as a function of water content. Journal of Applied Physics, 1992, 71, 5897-5903.	1.1	47
332	A solar reflecting material for radiative cooling applications: ZnS pigmented polyethylene. Solar Energy Materials and Solar Cells, 1992, 28, 175-193.	3.0	122
333	Conductivity relaxation in silver iodide-silver borate glasses. Journal of Non-Crystalline Solids, 1991, 131-133, 1096-1098.	1.5	11
334	SELECTIVELY SOLAR-ABSORBING SURFACE COATINGS: OPTICAL PROPERTIES AND DEGRADATION. , 1991, , 70-105.		10
335	OPTICAL PROPERTIES OF INHOMOGENEOUS TWO-COMPONENT MATERIALS. , 1991, , 7-43.		19
336	Dielectric properties of porous cement mortar: Fractal surface effects. Solid State Communications, 1991, 79, 93-96.	0.9	25
337	Circuit models for cement based materials obtained from impedance spectroscopy. Cement and Concrete Research, 1991, 21, 496-508.	4.6	79
338	Multifractal analysis of gas evaporated metal particle aggregates. Zeitschrift f�r Physik D-Atoms Molecules and Clusters, 1991, 20, 317-319.	1.0	3
339	Optical properties of fractal clusters of small metallic particles. Zeitschrift f�r Physik D-Atoms Molecules and Clusters, 1991, 20, 321-323.	1.0	6
340	Multifractal analysis of gas evaporated metal particle aggregates. , 1991, , 767-769.		0
341	Optical properties of fractal clusters of small metallic particles. , 1991, , 771-773.		0
342	Comparison of dielectric and optical properties of nickel-oxide-based electrochromic coatings. , 1990, , .		7

#	ARTICLE	IF	CITATIONS
343	Percolation Effects in the Electrical Conductivity of Porous Cement Mortar. <i>Europhysics Letters</i> , 1990, 13, 549-554.	0.7	14
344	Radiative Cooling With Pigmented Polyethylene Foils. <i>Proceedings of SPIE</i> , 1989, , .	0.8	8
345	Dielectric properties of silicon oxynitride films. <i>Applied Physics Letters</i> , 1989, 54, 965-967.	1.5	8
346	Comparison of dielectric response functions for conducting materials. <i>Journal of Applied Physics</i> , 1989, 66, 4350-4359.	1.1	46
347	Projection effects in electron micrographs of three-dimensional fractal aggregates: theory and application to gas-evaporated specimens. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 2451-2463.	0.7	10
348	Dielectric properties of disordered insulators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 520-523.	1.2	0
349	Fractal structure of gas evaporated metal aggregates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 49-52.	1.2	0
350	Effective medium theories with pair and three-point correlation effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 364-367.	1.2	2
351	Applications of inhomogeneous materials: Optical and electrical properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 482-488.	1.2	19
352	Fractals and the ac conductivity of disordered materials. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 260-265.	1.3	11
353	Angular-selective optical properties of Cr films made by oblique-angle evaporation. <i>Applied Physics Letters</i> , 1989, 54, 987-989.	1.5	58
354	Angular Selective Window Coatings: Theory And Experiment. <i>Proceedings of SPIE</i> , 1989, 1149, 179.	0.8	6
355	Conductivity threshold and kinetics of the phase transition in Fe ₂ O ₃ -Fe ₃ O ₄ thin films made by chemical vapour deposition. <i>Journal of Materials Science</i> , 1988, 23, 3876-3878.	1.7	4
356	Dielectric properties of pyrolysed polyimide films. <i>Journal of Materials Science</i> , 1988, 23, 2601-2606.	1.7	7
357	Threshold behaviour for the electrical conductivity of V ₂ O ₅ films reduced by heating in vacuo. <i>Journal of Materials Science</i> , 1988, 23, 2076-2078.	1.7	10
358	Dielectric relaxation in Co-Al ₂ O ₃ composite films. <i>Thin Solid Films</i> , 1988, 165, 67-76.	0.8	5
359	Co-Al ₂ O ₃ selective solar absorbing films: structure and effective medium theory for the optical properties. <i>Solar Energy Materials and Solar Cells</i> , 1988, 17, 217-226.	0.4	18
360	Fractal dimension of gas-evaporated Co aggregates: Role of magnetic coupling. <i>Physical Review Letters</i> , 1988, 60, 1735-1738.	2.9	66

#	ARTICLE	IF	CITATIONS
361	Optical and electrical properties of sputter-deposited Al films close to the percolation threshold. Journal of Applied Physics, 1988, 64, 3740-3742.	1.1	27
362	Optical properties at the metal-insulator transition in thermochromic VO ₂ thin films. Journal of Applied Physics, 1988, 64, 3327-3329.	1.1	47
363	Thermochromic VO ₂ Films for Energy-Efficient Windows. Proceedings of SPIE, 1987, , .	0.8	6
364	Low-frequency dielectric properties of Co-Al ₂ O ₃ composite films. Applied Physics Letters, 1987, 50, 937-939.	1.5	9
365	Optical properties of gas-evaporated metal particles: Effects of a fractal structure. Journal of Applied Physics, 1987, 62, 258-265.	1.1	82
366	Fractal aspects of the dielectric response of charge carriers in disordered materials. Journal of Applied Physics, 1987, 62, R1-R14.	1.1	137
367	Temperature-dependent transmittance of luminous and solar radiation for quartz fibers immersed in carbon tetrachloride. Applied Optics, 1987, 26, 2164.	2.1	10
368	Comparison between four flux theory and multiple scattering theory. Applied Optics, 1987, 26, 4034.	2.1	22
369	Dielectric response of Co-Al ₂ O ₃ composites and ZnO varistor materials. , 1987, , .		0
370	Pyrolysis kinetics and optical properties of polyimide foil. Journal of Materials Science Letters, 1987, 6, 1113-1114.	0.5	5
371	Thermochromic VO ₂ films for energy-efficient windows. Solar Energy Materials and Solar Cells, 1987, 16, 347-363.	0.4	248
372	Noble-metal-based transparent infrared reflectors: Experiments and theoretical analyses for very thin gold films. Journal of Applied Physics, 1986, 59, 571-581.	1.1	127
373	Noble-metal-based transparent infrared-reflectors. Solar Energy Materials and Solar Cells, 1986, 14, 257-268.	0.4	5
374	Far-infrared absorption in gas-evaporated Al particles: Effects of a fractal structure. Solid State Communications, 1986, 59, 579-582.	0.9	18
375	Analysis of current-voltage characteristics of metal-insulator composite films. Journal of Applied Physics, 1986, 59, 980-982.	1.1	36
376	Infrared-optical properties of gas-evaporated gold blacks: Evidence for anomalous conduction on fractal structures. Physical Review Letters, 1986, 56, 256-258.	2.9	41
377	Grain-size effects in the parallel-band absorption spectrum of aluminum. Physical Review B, 1986, 33, 5363-5367.	1.1	18
378	Optical Properties and Solar Selectivity of Metal-Insulator Composites. , 1986, , 539-600.		5

#	ARTICLE	IF	CITATIONS
379	Noble-metal-based transparent infrared-reflectors : Preparation and analysis of thin gold films.. Proceedings of SPIE, 1985, , .	0.8	4
380	Optical response and fabrication of regular arrays of ultrasmall gold particles. Thin Solid Films, 1985, 125, 165-170.	0.8	42
381	Electroluminescence from cermet films. Thin Solid Films, 1985, 125, 199-204.	0.8	11
382	Optical properties of cobalt-doped amorphous aluminum oxide. Journal of Applied Physics, 1985, 57, 157-158.	1.1	15
383	Noble-metal-based transparent infrared reflectors: Improved performance caused by nonhomogeneous film structure. Applied Physics Letters, 1985, 46, 713-715.	1.5	9
384	Characterization and optical properties of arrays of small gold particles. Applied Physics Letters, 1984, 44, 1134-1136.	1.5	98
385	Optical properties and solar selectivity of coevaporated Co-Al ₂ O ₃ composite films. Journal of Applied Physics, 1984, 55, 3382-3410.	1.1	406
386	Solar absorptance and thermal emittance of coevaporated Co-Al ₂ O ₃ cermet films. Solar Energy Materials and Solar Cells, 1983, 7, 501-510.	0.4	10
387	Surfaces for selective absorption of solar energy: an annotated bibliography 1955-1981. Journal of Materials Science, 1983, 18, 3475-3534.	1.7	121
388	Selective solar absorption of chemically etched aluminum-silicon films. Journal of Applied Physics, 1983, 54, 5488-5490.	1.1	6
389	Optical properties of codeposited aluminum-silicon composite films. Applied Optics, 1983, 22, 1237.	2.1	8
390	Dielectric function of coevaporated Co-Al ₂ O ₃ cermet films. Applied Physics Letters, 1982, 41, 773-775.	1.5	15
391	Effective medium models for the optical properties of inhomogeneous materials. Applied Optics, 1981, 20, 26.	2.1	531
392	Infrared optical properties of evaporated alumina films. Applied Optics, 1981, 20, 2742.	2.1	118
393	Photothermal conversion with cermet films: Implications of the bounds on the effective dielectric function. Solar Energy Materials and Solar Cells, 1981, 5, 173-180.	0.4	14
394	A technique for rapid and accurate determination of filling factors of codeposited granular films. Thin Solid Films, 1980, 74, L5-L6.	0.8	6
395	Ultrafine nickel particles for photothermal conversion of solar energy. Journal of Applied Physics, 1979, 50, 5500.	1.1	21
396	Ultrafine chromium particles for photothermal conversion of solar energy. Journal of Applied Physics, 1978, 49, 3512-3520.	1.1	49

#	ARTICLE	IF	CITATIONS
397	SELECTIVE ABSORPTION OF SOLAR ENERGY BY ULTRAFINE METAL PARTICLES. , 1978, , 870-874.		0
398	Selective absorption of solar energy in ultrafine chromium particles. Applied Physics Letters, 1977, 31, 665-666.	1.5	18
399	Chromogenics for Sustainable Energy: Some Advances in Thermochromics and Electrochromics. Advances in Science and Technology, 0, , .	0.2	5
400	TiO ₂ /VO ₂ Bilayer Coatings for Glazing: Synergistically Enhanced Photocatalytic, Thermochromic, and Luminous Properties. SSRN Electronic Journal, 0, , .	0.4	0
401	Cation/Anion-Based Physicochemical Mechanisms for Anodically Coloring Electrochromic Nickel Oxide Thin Films. ChemElectroChem, 0, , .	1.7	1